

# H3C S5120V2-LI Gigabit Access Switch Series

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New H3C Technologies Co., Limited



#### H3C S5120V2-LI Gigabit Access Switch Series

#### **Product Overview**

H3C S5120V2-LI is the latest development of Gigabit Layer 2 access switch. It's the second generation intelligent managed switches designed for networks requiring high performance, high port density and easy to use.

H3C S5120V2-LI series switch offers Gigabit connectivity with10/100/1000 autosensing ports and SFP optical uplink ports.

H3C S5120V2-LI series switch includes eight models as follows:

- S5120V2-10P-LI: 8 \*10/100/1000TX+ 2\*SFP
- S5120V2-20P-LI: 16\*10/100/1000TX+ 4\*SFP
- S5120V2-28P-LI: 24 \*10/100/1000TX+ 4\*SFP
- S5120V2-52P-LI: 48\*10/100/1000TX+ 4\*SFP
- S5120V2-10P-PWR-LI: 8 \*10/100/1000TX+ 2\*SFP
- S5120V2-28P-PWR-LI: 24 \*10/100/1000TX+ 4\*SFP
- S5120V2-28P-HPWR-LI: 24\*10/100/1000 BASE-T + 4\*SFP + 4\*10/100/1000 BASE-T COMBO
- S5120V2-52P-PWR-LI: 48\*10/100/1000TX+ 4\*SFP





#### Features and benefits

#### Abundant service capabilities

H3C S5120V2-LI switch series supports Internet broadband access, offers Gigabit access and 10G uplink for small to medium sized enterprises. It supports rich features such as Jumbo Frame, 802.1X, MAC authentication, Port security, LACP, 4K VLAN, 16K MAC and Black Hole MAC, etc. and abundant functions such as port-based priority mapping of layer 2 and layer 3, port-based mirror, redirection, port isolation, access control, port speed limit and rich IPV6 features, etc.

#### Intelligent Resilient Framework 2 (IRF2)

H3C S5120V2-LI switch series is pre-built with Intelligent Resilient Framework 2 (IRF2). IRF2 provides the following benefits:

- High scalability: With IRF2, plug-n-play device aggregation can be achieved by adding one or more switches into the IRF2 stack and enabling IRF2 stacking on the new device. New devices can be managed with a single IP, and upgraded at the same time to reduce network expansion cost.
- High reliability: The IRF2 patented 1: N backup technology allows each slave device in the IRF2 stack to serve as the backup of the master, creating control and data link redundancy, as well as uninterrupted layer-3 forwarding. This improves the reliability, avoids unplanned business downtime and serves to improve overall performance. When the master device fails, traffic remains uninterrupted.
- Load balancing: IRF2 supports cross-device link aggregation, upstream and downstream can be connected to more than one physical link, which creates another layer of network redundancy and boosts the network resource utilization.

Availability: H3C Implements IRF2 through standard Gigabit Ethernet (1GE) ports or Ten Gigabit Ethernet (10GE) ports which allocates bandwidth for business and application access and reasonably splits local traffic and upstream traffic. IRF2 rules not only able to obey within and across the rack, but also across the LAN.

#### Comprehensive security control policies

 H3C S5120V2-LI switch series supports innovative single-port multi-authentication function, the access authentication modes supported by different clients are different. For example, some clients can only perform MAC addresses Authentication (such as the printer terminal), and some user host for 802.1X authentication, and some user hosts only want to access through the Web portal authentication. In order to flexibly adapt to the multi-authentication requirements of the network environment, the S5120V2-LI switch series support single-port multi-authentication unified deployment.



- ARP attack and ARP virus are major threats to LAN security, so the S5120V2-LI switch series comes with diverse ARP protection functions such as ARP Detection to challenge the legitimacy of client, validate the ARP packets, and set a speed limit for ARP to prevent ARP swarm attacks from targeting CPU.
- H3C S5120V2-LI switch series support EAD (End User Admission Domination) function. Once working with the iMC (intelligent Management Centre) system, EAD integrates terminal security policies, such as anti-virus and patch update, into network access control and access right control policies to form a cooperative security system. By checking, isolating, updating, managing, and monitoring access terminals, EAD changes passive, single point network protection to active, comprehensive network protection, and changes separate management to centralized management, enhancing the network capability for preventing viruses, worms, and new threats.

#### Abundant QoS policies

The S5120V2-LI switch series supports packet filtering at Layer 2 through Layer 4, and traffic classification based on source MAC addresses, destination MAC addresses, source IP addresses, destination IP addresses, TCP/UDP port numbers, protocol types, and VLANs. It supports flexible queue scheduling algorithms based on ports and queues, including strict priority (SP), weighted round Robin (WRR) and SP+WRR. The S5120V2-LI switch series enables committed access rate (CAR) with the minimum granularity of 8 kbps. It supports port mirroring in the outbound and inbound directions, to monitor the packets on the specific ports, and to mirror the packets to the monitor port for network detection and troubleshooting.

#### Excellent manageability

 The H3C S5120V2-LI switch series makes switch management with ease with the support of SNMPv1/v2/v3, which can be managed by NM platforms, such as Open View and iMC. With CLI and Telnet switch management is made easier. And with SSH 2.0 encryption, switch management security is enhanced.

#### Rich Layer 3 routing features

H3C S5120V2-LI switch series supports static routing, RIP, RIPng, OSPF V1/V2/V3.

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### Specifications

Feature	S5120V2 -10P-LI	S5120V2 -20P-LI	S5120V2 -28P-LI	S5120V2 -52P-LI	S5120V2 -10P- PWR- LI	S5120V2 -28P- PWR- LI	S5120V2 -28P- HPWR -LI	S5120V2 -52P- PWR-LI
Switching capacity	20Gbps	40Gbps	56Gbps	104Gbps	20Gbps	56Gbps	56Gbps	104Gbps
Packet forwarding rate	15Mpps	30Mpps	41.7Mpps	77.4Mpps	15Mpps	41.7Mpps	41.7Mpps	77.4Mpps
Dimensions (H × W × D)	43.6× 266 × 161 mm	43.6× 330× 230 mm	43.6× 440 × 160 mm	43.6× 440 × 230 mm	43.6× 330 × 230 mm	43.6× 440 × 260 mm	43.6× 440 × 260 mm	43.6× 440 × 260 mm
Weight	≤ 1.5kg	≤ 2kg	≤ 2.5kg	≤ 3.5kg	≤ 3kg	≤ 4kg	≤ 4.5kg	≤ 6kg
Console ports	1							
Fixed ports	8*10/100 /1000TX		24*10/10 0/1000TX			24*10/10 0/1000TX	24*10/10 0/1000TX +4*10/10 0/1000 BASE-T Combo	48*10/10 0/1000TX
	+2*SFP	+4*SFP	+4*SFP	+4*SFP	+2*SFP	+4*SFP	+ 4*SFP	+4*SFP
Input voltage range	100 VAC to	100 VAC to 240 VAC @ 50 Hz/60 Hz						
	MIN: 7W	MIN: 9W	MIN: 9W	MIN:	MIN:	MIN:	MIN: AC: 23W	MIN: AC: 36W
	MAX:	MAX.	MAN.	1014/	13W	19W	DC: 16W	DC:
Power consumption	12W	MAX: 19W	MAX: 23W	18W MAX:	W (PoE 240V 125W) E	MAX: 240W(Po E 170W)	MAX: AC: 446W (PoE	26W MAX: AC: 467W (PoE
				41W			370W ) DC:	370W) DC: 807W(PoE 740W)
Operating temperature	0°C to 45°	C		I	I		I	I
Operating humidity	10% RH to	o 95% RH,	non-conde	ensing				
Stacking	Intelligen	t Resilient I	Framework	2 (IRF2)				
Link aggregation	1G/10GE port aggregation Static aggregation Dynamic aggregation Multichassislink aggregation							
Jumbo frame	Supporte	d						
MAC address table	Address	Blackhole MAC Address MAC learning limit						
Flow control	802.3x flo	802.3x flow control and half-duplex backpressure						
VLAN	Port-base VLANQin Voice VLA MAC VLA	Q AN						

ARP	ARP Detection			
ND	ARP speed limit			
ND	Supported			
VLAN virtual port	Supported			
DHCP	DHCP Client DHCP Snooping DHCP Relay DHCP Server DHCP Option82			
DNS	Static and Dynamic DNS IPV4 and IPV6			
Routing protocols	IPV4/IPV6 static routing RIP/ RIPng, OSPFV1/V2/V3			
Multicast	IGMP Snooping V1/V2/V3 MVR			
Strom suppression	Storm suppression based on port bandwidth percentage Storm suppression based on PPS			
Layer 2 ring network protocol	STP/RSTP/MSTP STP Root Protection Smart Link RRPP			
Mirroring	Flow mirroring Port mirroring			
QoS/ACL	Packet filter Flexible queue scheduling algorithms based on ports and queues, including SP, WRR and SP+WRR Bidirectional ACL Port-based speed limit Flow redirection Time-range			
Security	Hierarchical user management and password protection MAC-based authentication 802.1X SSH2.0 Port isolation IP source guard HTTPs EAD			
IEEE	IEEE 802.3x IEEE 802.3ad IEEE 802.3af IEEE 802.3at IEEE 802.1p IEEE 802.1x IEEE 802.1q IEEE 802.1d IEEE 802.1w IEEE 802.1s			
Loading and upgrading	Loading and upgrading through FTP/TFTP			

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Management and maintenance	Configuration from CLI Login through Telnet, and the console port SimpleNetwork Management Protocol(SNMP) Remote Monitoring (RMON) IMC network management system WEB management System log Alarming based on severity IRF NTP Debugging information output Telnet-based remote maintenance NQA DLDP Virtual Cable Test
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#### Ordering Information:

Product ID	Product Description
LS-5120V2-28P-LI-	H3C S5120V2-28P-LI L2 Ethernet Switch with 24*10/100/1000BASE-TPorts
GL	and 4*1000BASE-X Ports,(AC)
LS-5120V2-52P-LI-	H3C S5120V2-52P-LI L2 Ethernet Switch with 48*10/100/1000BASE-TPorts
GL	and 4*1000BASE-X Ports,(AC)
LS-5120V2-10P-	H3C S5120V2-10P-PWR-LI L2 Ethernet Switch with 8*10/100/1000BASE-T
PWR-LI-GL	PoE+ Ports(AC 125W), and 2*1000BASE-X SFP Ports,(AC)
LS-5120V2-10P-LI-	H3C S5120V2-10P-LI L2 Ethernet Switch with 8*10/100/1000BASE-TPorts
GL	and 2*1000BASE-X SFP Ports,(AC)
LS-5120V2-28P-	H3C S5120V2-28P-HPWR-LI L2 Ethernet Switch with 24*10/100/1000BASE-
HPWR-LI-GL	T PoE+ Ports(AC 370W,DC 740W), 4*100/1000BASE-X Ports, and 4*GE
	Combo Ports,(AC/DC)
LS-5120V2-52P-	H3C S5120V2-52P-PWR-LI L2 Ethernet Switch with 48*10/100/1000BASE-T
PWR-LI-GL	PoE+ Ports(AC 370W,DC 740W) and 4*1000BASE-X SFP Ports,(AC/DC)
LS-5120V2-20P-LI-	H3C S5120V2-20P-LI L2 Ethernet Switch with 16*10/100/1000BASE-TPorts
GL	and 4*1000BASE-X SFP Ports,(AC)
LS-5120V2-28P-	H3C S5120V2-28P-PWR-LI L2 Ethernet Switch with 24*10/100/1000BASE-T
PWR-LI-GL	PoE+ Ports(AC 185W) and 4*1000BASE-X Ports,(AC)

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